

In accordance with EC NOTICE TO STAKEHOLDERS
WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN
THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

Intertek

This issued certificate - Certificate No: ITS14ATEX28077X



and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3rd party bodies involved in the transfer from NB0359 to NB2575 on 17 December 2020

Name: Fabrizio Massei

EC-TYPE EXAMINATION CERTIFICATE

Position: ATEX Certification Officer

1. Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

Date: 17 December 2020

2. EC-Type Examination Certificate Number: ITS14ATEX28077X

3. Equipment or Protective System: BA307E-SS and BA327E-SS 4 and 5 digit panel mounting indicators

4. Manufacturer: BEKA Associates Ltd

5. Address: Old Charlton Road, Hitchin, SG5 2DA, United Kingdom

6. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

7. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report 101729854MAN-001 dated August 2014.

8. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2009, EN 60079-11:2007 and EN 61241-11:2006 except in respect of those requirements referred to at item 15 of the Schedule.

9. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

10. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

11. The marking of the equipment or protective system shall include the following:-



II 1 G Ex ia IIC T5 Ga -40°C ≤ ta ≤ +70°C

II 1 D Ex ia IIIC T80°C Da IP20 -40°C ≤ ta ≤ +70°C

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

D G Bosson
Certification Officer
19 August 2014

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX28077X

12. Description of Equipment or Protective System

The BA307E-SS and BA327E-SS 4 and 5 digit panel mounting indicators are loop powered indicators enclosed in BEKA's stainless steel robust 105x60mm panel enclosure (certificate number ITS14ATEX17967U), designed to display a measured variable in meaningful engineering units within the hazardous area. The zero and span of the display are independently adjustable allowing the indicators to be calibrated to display a variable represented by the 4/20 mA signal.

A root extractor and an adjustable sixteen segment lineariser enable the indicator to display flow and non-linear variables such as tank level in engineering units.

The 4 and 5 Digit Panel Mounting Indicators may optionally incorporate an Alarm board and may additionally be fitted with an optional Backlight board.

The 4 and 5 Digit Panel Mounting Indicators comprise a main board, a display module, an optional Alarm Board and an optional Backlight board, all housed within the certified BEKA 105 x 60 robust panel, stainless steel enclosure, certified under ATEX certificate number ITS14ATEX17967U.

The maximum intrinsically safe input and output parameters at the external connections are as follows:

TB1 Terminals 1 and 3 (Loop Input); TB2 Terminal 12 and TB1 Terminal 3 (TB2 – 13 and TB1 – 1 connected in series)

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 13nF$
 $L_i = 0.008mH (0.01mH)$

TB2 Terminals 12, 13 and 14 (Backlight Input)

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 13nF$
 $L_i = 0.008mH (0.01mH)$

TB3 Terminals RS1 and RS2

$U_i = 30V$	$C_o = 53nF$
$I_i = 200mA$	$L_o = 0.79mH$
$P_i = 0.84W$	$U_o = 6V$
$C_i = 13nF$	$I_o = 2.5mA$
$L_i = 0.008mH (0.01mH)$	$P_o = 3.75mW$

TB4 Terminals 8 and 9' Terminals 10 and 11 (Alarm 1 and Alarm 2)

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 24nF$
 $L_i = 0.008mH (0.01mH)$

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX28077X

For intrinsic safety considerations, under fault conditions, the voltage, current and power at the output terminals TB1 – 1 & 3, terminals TB2 – 12 & TB1 – 3, and terminals TB4 – 8 & 9 and 10 & 11 do not exceed those specified in clause 5.7 of EN 60079-11. The equivalent capacitance and inductance are the result of r.f. suppression components directly connected across the apparatus input terminals.

The BEKA BA307E-SS and BEKA BA327E-SS consists of the BEKA BA307E and BA327E 4 and 5 digit panel mount indicators (certificate number ITS11ATEX27254X) and the BEKA robust 105x60mm panel enclosure (certificate number ITS14ATEX17967U). The plastic case of the suffix-E type indicators has been removed and replaced with the component approved enclosure, giving a new piece of equipment with suffix-E-SS

13. Report Number

Intertek Report Ref: 101729854MAN-001 Dated: August 2014

14. Conditions of Certification

(a). Special Conditions for safe use

- For use in group IIIC conductive dust atmospheres, the Indicator shall be mounted such that the indicator terminals have at least IP6X protection.
- When installed in an Ex px, py or pz panel enclosure, the indicator must be powered by an appropriately rated Zener barrier or galvanic isolator located in a safe area.
- When installed in an Ex e panel enclosure, the indicator must be powered by an appropriately rated Zener barrier or galvanic isolator located in a safe area.
- When installed in an Ex ta, Ex tb or tc panel enclosure the indicator must be powered via appropriately rated Zener barrier or galvanic isolator located in a safe area, so that indicator push button contacts are nonincendive (Ex ia).
- The supply circuit for indicators used in the equipment with pressurized type of protection shall be rated for a prospective short circuit current of not more than 10kA.

(b). Conditions of Manufacture

- The voltages applied to infallible transformers shall conform to the values given in Table 10 as per the requirements of EN 60079-11:2007, Clause 11.2, Routine tests for infallible transformers.

15. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 101729854MAN-001 Dated: August 2014

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.



SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX28077X

16. **Drawings and Documents**

Title	Drawing No.:	Rev. Level:	Date:
ATEX & IECEx Ex I Certification Information for BA307E-SS & BA327E-SS Rugged Digital Indicators (3 Sheets)	C1300-77	1	17/06/2014

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

Sheet 4 of 4